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1 [Inferring aliasing and encapsulation properties for java](#)



Kin-Keung Ma, Jeffrey S. Foster

October 2007 ACM SIGPLAN Notices, Volume 42 Issue 10

Publisher: ACM

Full text available: [pdf\(416.23 KB\)](#)

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Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 86, Citation Count: 0

There are many proposals for language techniques to control aliasing and encapsulation in object oriented programs, typically based on notions of object ownership and pointer uniqueness. Most of these systems require extensive manual annotations, and ...

Keywords: aliasing, encapsulation, java, lending, ownership, ownership inference, uniqueness, uniqueness inference, uno

2 Inferring aliasing and encapsulation properties for java



Kin-Keung Ma, Jeffrey S. Foster

October OOPSLA '07: Proceedings of the 22nd annual ACM SIGPLAN conference on
Object oriented programming systems and applications

Publisher: ACM

Full text available:  [pdf\(416.23 KB\)](#)

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Keyw ords: aliasing, encapsulation, java, lending, ownership, ownership inference, uniqueness, uniqueness inference, uno


3 Type-based publish/subscribe: Concepts and experiences



Patrick Eugster

January ACM Transactions on Programming Languages and Systems
2007 (TOPLAS), Volume 29 Issue 1

Publisher: ACM

Full text available:  [pdf\(822.39 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 379, Citation Count: 0

A continuously increasing number of interconnected computer devices makes the requirement for programming abstractions for remote one-to-many interaction yet more stringent. The publish/subscribe paradigm has been advocated as a candidate abstraction ...

Keyw ords: Abstraction, Java, distribution, generics, publish/subscribe, reflection, type

4 Type-Safe linking with recursive DLLs and shared libraries



Dominic Duggan

November ACM Transactions on Programming Languages and Systems
2002 (TOPLAS), Volume 24 Issue 6

Publisher: ACM

Full text available:  [pdf\(653.62 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
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Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 42, Citation Count: 5

Component-based programming is an increasingly prevalent theme in software development, motivating the need for expressive and safe module interconnection languages. Dynamic linking is an important requirement for module interconnection languages, as ...

Keywords: Dynamic Linking, Module Interconnection Languages, Recursive Modules, Shared Libraries

5 JTL: the Java tools language



Tal Cohen, Joseph (Yossi) Gil, Itay Maman

October OOPSLA '06: Proceedings of the 21st annual ACM SIGPLAN conference on 2006 Object-oriented programming systems, languages, and applications

Publisher: ACM

Full text available: [pdf\(386.63 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 134, Citation Count: 2

We present an overview of JTL (the Java Tools Language, pronounced "Gee-tel"), a novel language for querying JAVA [8] programs. JTL was designed to serve the development of source code software tools for JAVA, and as a small language which to aid programming ...

Keywords: declarative programming, reverse engineering

6 Permission-based ownership: encapsulating state in higher-order typed languages



Neel Krishnaswami, Jonathan Aldrich

June PLDI '05: Proceedings of the 2005 ACM SIGPLAN conference on Programming 2005 language design and implementation

Publisher: ACM

Full text available: [pdf\(247.65 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 42, Citation Count: 5

Today's module systems do not effectively support information hiding in the presence of shared mutable objects, causing serious problems in the development and evolution of large software systems. Ownership types have been proposed as a solution to this ...

Keywords: domains, lambda calculus, modularity, ownership types, permissions, state, system f, type theory

7 [Permission-based ownership: encapsulating state in higher-order typed](#)



[languages](#)

Neel Krishnaswami, Jonathan Aldrich

June ACM SIGPLAN Notices, Volume 40 Issue 6

2005

Publisher: ACM

Full text available: [pdf\(247.65](#)

[KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

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Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 42, Citation Count: 5

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Keywords: domains, lambda calculus, modularity, ownership types, permissions, state, system f, type theory

8 [Ownership confinement ensures representation independence for object-oriented](#)



[programs](#)

Anindya Banerjee, David A. Naumann

November Journal of the ACM (JACM), Volume 52 Issue 6

2005

Publisher: ACM

Full text available: [pdf\(664.37](#)

[KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

[index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 95, Citation Count: 4

Representation independence formally characterizes the encapsulation provided by language constructs for data abstraction and justifies reasoning by simulation. Representation independence has been shown for a variety of languages and constructs but ...

Keywords: Alias control, confinement, data refinement, relational parametricity, simulation

9 [JTL: the Java tools language](#)



Tal Cohen, Joseph (Yossi) Gil, Itay Maman

October 2006 ACM SIGPLAN Notices, Volume 41 Issue 10

Publisher: ACM

Full text available: [pdf\(386.63 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 134, Citation Count: 2

We present an overview of JTL (the Java Tools Language, pronounced "Gee-tel"), a novel language for querying JAVA [8] programs. JTL was designed to serve the development of source code software tools for JAVA, and as a small language which to aid programming ...

Keywords: declarative programming, reverse engineering

10 [Relationally-parametric polymorphic contracts](#)



Arjun Guha, Jacob Matthews, Robert Bruce Findler, Shriram Krishnamurthi

October 2007 DLS '07: Proceedings of the 2007 symposium on Dynamic languages

Publisher: ACM

Full text available: [pdf\(428.25 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 55, Citation Count: 0

The analogy between types and contracts raises the question of how many features of static type systems can be expressed as dynamic contracts. An important feature missing in prior work on contracts is parametricity, as represented by the polymorphic ...

Keywords: contracts, parametricity, polymorphism

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